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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/541,871		.07/11/2005	Sacid Esmaeilzadeh	68989-79590	7958		
26288	7590	12/11/2006		EXAN	EXAMINER		
		HOLM AB	GROUP	GROUP, KARL E			
BOX 5581, SE-114_85		ATAN 2 OLM; SWEDENn	ART UNIT	PAPER NUMBER			
STOCKHO			1755				
SWEDEN				DATE MAILED: 12/11/200	06		

Please find below and/or attached an Office communication concerning this application or proceeding.

	T						
	Application No.	Applicant(s)					
Office Action Summary	10/541,871	ESMAEILZADEH, SAEID					
Office Action Summary	Examiner	Art Unit					
	Karl E. Group	1755					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON.	N. mely filed  n the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
_	—· s action is non-final.						
3) Since this application is in condition for allowa		osecution as to the merits is					
,,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	,						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application							
•							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) 1-20 is/are rejected.							
•	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) ☐ The specification is objected to by the Examine	er.						
10) The drawing(s) filed on is/are: a) □ acc	epted or b) ☐ objected to by the	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)						
<ul> <li>Notice of Draitsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date 7-11-05.</li> </ul>	5) Notice of Informal						
Paper No(s)/Mail Date <u>7-11-05</u> . 6)  Other:							

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## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 12 set forth "alkali metals Na, K and Rb" and "alkaline earth metals Be, Mg, Ca,Sr and Ba", transition metals Zr, Hf, …" it is not clear if the claims are being limited to the recited elements or all alkali metals, transition metals, etc. It is noted not all the elements listed in claims 2 and 9 are listed in claims 1 and 12.

In the claims x, y and z are not defined. It is not clear of the claims in clued values of zero for these subscripts.

Claims 4 and 5 fail to define what the ratio is based upon, atomic?

Claims 10 and 12, "the desired composition" lacks antecedent basis. It is also suggested to use a term other than desired.

## Claim Rejections - 35 USC § 102 and 103

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

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Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-10,12-17,19,20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sterzel (4,859,639).

Sterzel teaches amorphous silicon nitride where Si is substituted in amounts of .5-40 mole% by one of B, Al, Y, La, Ti, Zr, W and Mo, see column 2, lines 20-25 and table in column 5. The claims are not considered to exclude the amorphous powder. Furthermore, a glassy molding is formed by heating to a temperature of 1200-1350 °C, column 3, lines 25-28. The taught compositions are within the ratios of claims 4-5.

Although the claimed hardness and refractive index is not disclosed, it is well settled that when a claimed composition appears to be substantially the same as a composition disclosed in the prior art, the burden is properly upon the applicant to prove by way of tangible evidence that the prior art composition does not necessarily possess characteristics attributed to the CLAIMED composition. In re Spada, 911 F.2d 705, 15 USPQ2d 1655 (Fed. Circ. 1990); In re Fitzgerald, 619 F.2d 67, 205 USPQ 594 (CCPA 1980); In re Swinehart, 439 F.2d 2109, 169 USPQ 226 (CCPA 1971). Any showing must be commensurate in scope with the claims.

Claim 9 it is not clear what properties are encompassed by "magnetic or magnetooptical properties".

6. Claims 1,4-8,12-17,19,20 are rejected under 35 U.S.C. 102(b) as being anticipated by Neudecker et al (6,242,132).

Neudecker et al teach a glassy composition including Si, Sn, O and N, see column 5, lines 21-26. It is not clear if the instant claims exclude Sn and Li from the list of elements, see above 112 rejection.

7. JP 2001-214162 is cited of interest however the content of N is below 15 wt%. Dietz 3,676,343 teaches a BN-silicon nitride amorphous material. Laurent et al.

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(4,608,352), Aitken (4,940,678), Drouet et al (5,166,102), Kanamaru et al (6,329,309), Osafune et al (5,576,253), Kobayashi et al (4,957,883) and Weidner et al (5,006,142) are cited for teaching oxynitride glasses, however the nitrogen content is below that claimed.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Karl E Groub

Primary Examiner

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Keg 12-5-06